

# Data Sources and Tools

**Redistricting Advisory Committee**  
**March 23, 2011**



# Overview

- I. Data Sources and Key Fields
- II. Census 2010 Results
- III. Submitting Plans
- IV. Maptitude Online Redistricting Plan Viewer
- V. Work of the Redistricting Advisory Committee
- VI. Next Steps

# I. Data Sources and Key Fields

# Data Sources: Dual Focus

## Equal Population

- Protects *People*
- Use Total Population
- Aim for zero variation

### **Data Source:**

- ✓ U.S. Census 2010 PL 94-171  
“total population”

## §2 Voting Rights Act

- Protects *Voting/Voters*
- Use Citizens/Voting Age Population
- Aim for compliance

### **Data Sources:**

- ✓ U.S. Census 2010 PL 94-171
- ✓ U.S. Census American Community Survey
- ✓ U.S. Census Special Tabulation
- ✓ California Statewide Database

# U.S. Census 2010 (PL 94-171)

- U.S. Census conducted once every 10 years to provide an official count of the entire U.S. population on April 1
- Generally, PL 94-171 includes the Census data relevant to redistricting
- Data includes:
  - Population totals
  - Population breakdowns by race, Hispanic or Latino, and voting age

# U.S. Census 2010 Geography

- Census geography (map files) provide the essential building blocks
  - Census tracts (about 2,500 – 8,000 people)
  - Census blocks (about 100 people)
  - Census *tracts* are made up of census *blocks*
- 2010 Census geography differs from 2000 Census geography
- Official record of redistricting decisions is underlying data on census tract/block locations (not a “map”)

# U.S. Census 2010 (PL 94-171)

Key Data Fields recommended by U.S. Office of Management and Budget (OMB) and Department of Justice (DOJ)

## Total Population



```
graph TD; A[Total Population] --> D[• Hispanic<br>• Non-Hispanic White (single race)<br>• Non-Hispanic African American (single race + dual race with White)<br>• Non Hispanic Asian American(single race + dual race with White)<br>• Non Hispanic Native American (single race + dual race with White)<br>• Non Hispanic Pacific Islander (single race + dual race with White)<br>• Non Hispanic Some Other Race (single race + dual race Other with White)<br>• Non-Hispanic two or more races]; B[Total Voting Age Population] --> D;
```

## Total Voting Age Population

- Hispanic
- Non-Hispanic White (single race)
- Non-Hispanic African American (single race + dual race with White)
- Non Hispanic Asian American(single race + dual race with White)
- Non Hispanic Native American (single race + dual race with White)
- Non Hispanic Pacific Islander (single race + dual race with White)
- Non Hispanic Some Other Race (single race + dual race Other with White)
- Non-Hispanic two or more races

# U.S. Census American Community Survey (ACS)

- Ongoing nationwide survey conducted by the U.S. Census Bureau
  - Replaces “long form”
- All ACS data are reported as *estimates*, not counts, from a specific data collection period (1-, 3-, or 5-years)
  - ACS 5-year estimates provide data at the census tract level and must be disaggregated to the census block level
  - Collected 2005 through 2009 (*not* “Census 2010” data)
- Data includes:
  - Citizenship, economic, social, demographic and housing characteristics
  - Based on U.S. Census geography
  - Not aggregated according to OMB and DOJ guidelines



# U.S. Census American Community Survey (ACS) Race Categories

- **Hispanic**
- **Single-Race White**
- **Non-Hispanic Single-Race White**
- **Single-Race African American**
- **Single-Race Asian American**
- **Single-Race Hawaiian/Pacific Islander**
- **Single-Race Other**
- **Multi-Race**

# U.S. Census Special Tabulation

- Special tabulation of data by the U.S. Census Bureau based on 5-year ACS data
- Requested by the Department of Justice, Civil Rights Division
- Special tabulation data are *survey estimates*
- Results are *rounded* and *may not add to the total*
- Data includes:
  - Citizens voting age population
  - Multi-race data aggregated according to OMB and DOJ guidelines

# U.S. Census Special Tabulation Race Categories

Key Data Fields recommended by U.S. Office of Management and Budget (OMB) and Department of Justice (DOJ)

- **Hispanic**
- **Non-Hispanic White (single race)**
- **Non-Hispanic African American (single race + dual race with White)**
- **Non Hispanic Asian American(single race + dual race with White)**
- **Non Hispanic Native American (single race + dual race with White)**
- **Non Hispanic Pacific Islander (single race + dual race with White)**
- **Non Hispanic Some Other Race (single race + dual race Other with White)**
- **Non-Hispanic two or more races**

# California Statewide Database

- Nonpartisan public redistricting database for the State of California housed at U.C. Berkeley
- Data includes:
  - PL94-171 Census data (2010)
  - Statements of Vote and Statements of Registration from California's 58 counties for statewide elections since 1992
    - Detail by ethnicity using *surname matching* for Latinos and Asian-Americans

# Summary of Data Fields

## Census 2010 (PL94-171)

- Total Population
- Deviation
- “OMB/DOJ” Hispanic
- “OMB/DOJ” Not Hispanic (NH)
- “OMB/DOJ” NH White
- “OMB/DOJ” NH African American
- “OMB/DOJ” NH Native American
- “OMB/DOJ” NH Asian
- “OMB/DOJ” NH Pacific Islander
- “OMB/DOJ” NH Some other race
- “OMB/DOJ” NH Two or more races
- “OMB/DOJ” Total Voting Age Population (VAP)
- “OMB/DOJ” NH White VAP
- “OMB/DOJ” Hispanic VAP
- “OMB/DOJ” African American VAP
- “OMB/DOJ” Asian American VAP
- “OMB/DOJ” Other VAP

## American Community Survey (ACS)

- Total Citizens
- Total Citizen VAP
- ACS Hispanic Citizens Voting Age Population (CVAP)

- ACS Non-Hispanic White CVAP
- ACS Asian CVAP
- ACS African American CVAP
- ACS Other CVAP

## Special Tabulation

- Total CVAP
- Hispanic CVAP
- Non-Hispanic White CVAP
- Asian CVAP
- African American CVAP
- Other CVAP

## California Statewide Database

- 2010 Total Voters Registration
- 2010 Hispanic Registration
- 2010 Asian Registration
- 2010 Filipino Registration
- 2010 Total Votes
- 2010 Hispanic Votes
- 2010 Asian Votes
- 2010 Filipino Votes

## II. Census 2010 Results

# Census 2010 for San Diego County

	#	% of Total Pop.
Total Population	3,095,313	100.0%
18+ Population	2,371,145	76.6%

	Total Pop.	% of Total Pop.	18+ Pop.	% of 18+ Pop.
Hispanic Origin	991,348	32.0%	661,362	27.9%
Non-Hispanic (NH) White	1,500,047	48.5%	1,254,403	52.9%
NH Black or African American	160,938	5.2%	117,625	5.0%
NH American Indian & Alaska Native	24,195	0.8%	18,740	0.8%
NH Asian	370,915	12.0%	287,008	12.1%
NH Native Hawaiian & Other Pacific Islander	17,778	0.6%	13,264	0.6%
NH Some Other Race	8,692	0.3%	6,107	0.3%
NH Multiple Races	21,400	0.7%	12,636	0.5%

Race categories aggregated as recommended by the U.S. Office of Management and Budget (OMB) and Department of Justice (DOJ)

# Census 2010 Total Population: San Diego County Supervisorial Districts

2001 District	Population	Deviation*	% Deviation*
1	654,849	35,786	5.78%
2	570,543	-48,520	-7.84%
3	626,577	7,514	1.21%
4	592,584	-26,479	-4.28%
5	650,760	31,697	5.12%

\* Based on a target supervisorial district population of 619,063



# Census 2010 Race and Hispanic Origin: San Diego County Supervisorial Districts

2001 District	Hispanic Origin	Non-Hispanic (NH) White	NH Black or African American	NH American Indian & Alaska Native	NH Asian	NH Native Hawaiian & Other Pacific Islander	NH Some Other Race	NH Multiple Races
1	356,687 (54.5%)	176,346 (26.9%)	36,598 (5.6%)	3,179 (0.5%)	72,573 (11.1%)	3,426 (0.5%)	1,608 (0.2%)	4,432 (0.7%)
2	134,281 (23.5%)	356,803 (62.5%)	30,843 (5.4%)	7,054 (1.2%)	32,568 (5.7%)	3,743 (0.7%)	1,521 (0.3%)	3,730 (0.7%)
3	124,674 (19.9%)	361,668 (57.7%)	16,209 (2.6%)	3,348 (0.5%)	112,652 (18.0%)	2,318 (0.4%)	1,964 (0.3%)	3,744 (0.6%)
4	176,560 (29.8%)	242,331 (40.9%)	56,867 (9.6%)	3,663 (0.6%)	102,134 (17.2%)	3,572 (0.6%)	1,891 (0.3%)	5,566 (0.9%)
5	199,146 (30.6%)	362,899 (55.8%)	20,421 (3.1%)	6,951 (1.1%)	50,988 (7.8%)	4,719 (0.7%)	1,708 (0.3%)	3,928 (0.6%)

# Census 2010 Race and Hispanic Origin (18+ Pop): San Diego County Supervisorial Districts

2001 District	18+ Hispanic Origin	18+ Non-Hispanic (NH) White	18+ NH Black or African American	18+ NH American Indian & Alaska Native	18+ NH Asian	18+ NH Native Hawaiian & Other Pacific Islander	18+ NH Some Other Race	18+ NH Multiple Races
1	242,073 (49.3%)	154,669 (31.5%)	28,765 (5.9%)	2,663 (0.5%)	56,608 (11.5%)	2,678 (0.5%)	1,198 (0.2%)	2,675 (0.5%)
2	87,246 (20.1%)	290,053 (66.8%)	21,167 (4.9%)	5,261 (1.2%)	24,556 (5.7%)	2,702 (0.6%)	1,047 (0.2%)	2,016 (0.5%)
3	81,510 (17.0%)	295,215 (61.5%)	11,247 (2.3%)	2,566 (0.5%)	84,608 (17.6%)	1,694 (0.4%)	1,324 (0.3%)	2,206 (0.5%)
4	121,457 (25.5%)	218,132 (45.8%)	41,930 (8.8%)	3,127 (0.7%)	83,669 (17.6%)	2,824 (0.6%)	1,438 (0.3%)	3,504 (0.7%)
5	129,076 (26.4%)	296,334 (60.6%)	14,516 (3.0%)	5,123 (1.0%)	37,567 (7.7%)	3,366 (0.7%)	1,100 (0.2%)	2,235 (0.5%)

## III. Submitting Plans


# What is a Plan?

- A **Plan** is a data file that includes a map and demographic data.
  - Many incorrectly use the terms **Plan** and **Map** interchangeably
- A Map is a visual depiction of plan data that has layers:
  - Geography
  - Parks and water areas
  - Streets
  - Census Tracts
  - Census Blocks
  - Etc...
- You cannot create a plan without a base map, but you can create a map without district data
- The official record of a **plan** is the data file that defines the Tract or Block and Proposed District

# Public plan submissions

- “How to submit a plan” guidelines on the Redistricting web pages
  - Click the [Submit/View Plans Link](#)
- Redistricting plan proposals must comply with the County’s established 2011 [Criteria and Guidelines](#)
- Redistricting plan proposals must include the following when submitted:
  - Completed Plan Submittal Form
  - Plan Submittal Electronic files

# Plan Submittal Form

 <b>Proposed Redistricting Plan Submittal</b> County of San Diego 2011 Supervisorial Districts	
<b>SUBMITTER'S INFORMATION</b>	
Date	<input type="text"/>
Name	<input type="text"/> Title <input type="text"/>
Organization	<input type="text"/>
Address	<input type="text"/>
City	<input type="text"/> State <input type="text"/> Zip <input type="text"/>
Phone	<input type="text"/> Phone Extension <input type="text"/>
Email:	<input type="text"/>
NOTE: Information provided is part of public record and subject to disclosure.	
<b>PLAN TITLE</b>	
<input type="text"/>	
<b>PLAN ELEMENTS</b> <i>Narrative to be completed by the proposed plan author(s). Attach additional pages if needed.</i>	
Describe your proposed plan and note any data sources used.	
<div style="background-color: #e6f2ff; height: 300px; width: 100%;"></div>	

[Reset form](#)[Print my form](#)

# Plan Submittal Files

- A numerically ordered list of each **Census Tract AND Proposed District**
  - Either **Census Tract Name OR Tract Number**
    - **Tract Name** is a 1-5 digit code, i.e.  
197.01
    - **Tract Number** is an 10 digit code, i.e.  
6073019701

# Splitting Tracts

- Submit a numerically ordered list of each Census Tract and Proposed District

**AND**

- A separate numerically ordered list of each Census Block and Proposed District for each Census Tract that is to be split.



# Splitting Tracts, continued

File must include:

- Block Number/Proposed District
- The Tract being split DOES NOT NEED TO BE IDENTIFIED on this list.
- This file should only contain the Block Number/Proposed District where the proposed plan calls for split tracts

# Example

Row 1	23456789101112	1
Row 2	23456789101114	2
Row 3	98765432123456	3
Row 4	98765432123457	5

# File Format

**All plans should be submitted using MS Excel or a comma separated value file format.**

- **For example: .csv, .xlsx or .xls. (Excel format)**

# Data References

**Currently the following are available:**

- Tract Number to Name index
- Block Number by Tract Number index
- Current Districts with 2010 Tract Numbers
- Current Districts with 2010 Block Numbers

**Custom reports will be available soon:**

- Tract Name/Tract#/Tract Pop/District
- Block#/Block Pop/ District
- Tract Name/Tract#/Tract Pop/Block#/Block Pop/District

# The Submit / View Plans web page



**County of San Diego**

SEARCH

Your County Government | Community Services | Healthy Kids & Families | Business Resources | Environment | Public Safety | Jobs

**Redistricting 2011**

- > [Home](#)
- > [Contact Us](#)
- > [Calendar of Events](#)
- > [RAC Meetings](#)
- > [Submit / View Plans](#)
- > [Resources](#)
- > [FAQ](#)

**VIEW the latest proposed plans**

[How to submit a PLAN to the Redistricting Advisory Committee?](#)

[Plan Submittal Form](#) (This form must be submitted with electronic data files, See "How to submit a PLAN")

[How to submit a SUGGESTION to the Redistricting Advisory Committee?](#)

**Data Reference Documents:**

- [Block Number by Tract Number Index](#)
- [Tract Number to Name Index](#)
- [Current Districts with 2010 Block Numbers](#)
- [Current Districts with 2010 Tract Numbers](#)

Printer Friendly  
A++ | A+ | A



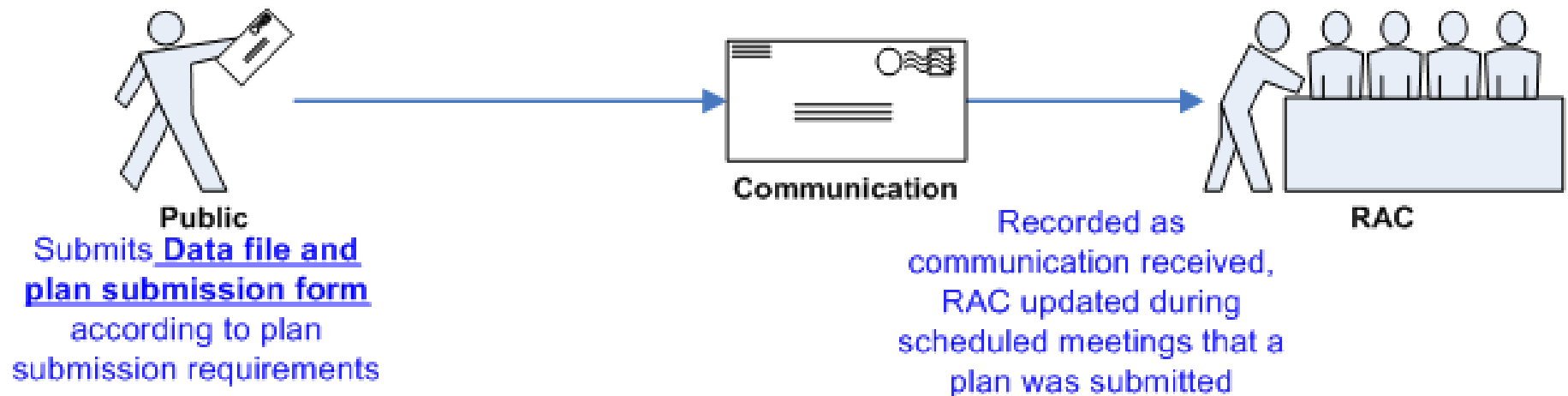
[County Departments](#) | [Accessibility Policy](#) | [Web & Privacy Policies](#) | [Help](#) | [Visiting San Diego](#)

# Delivery methods

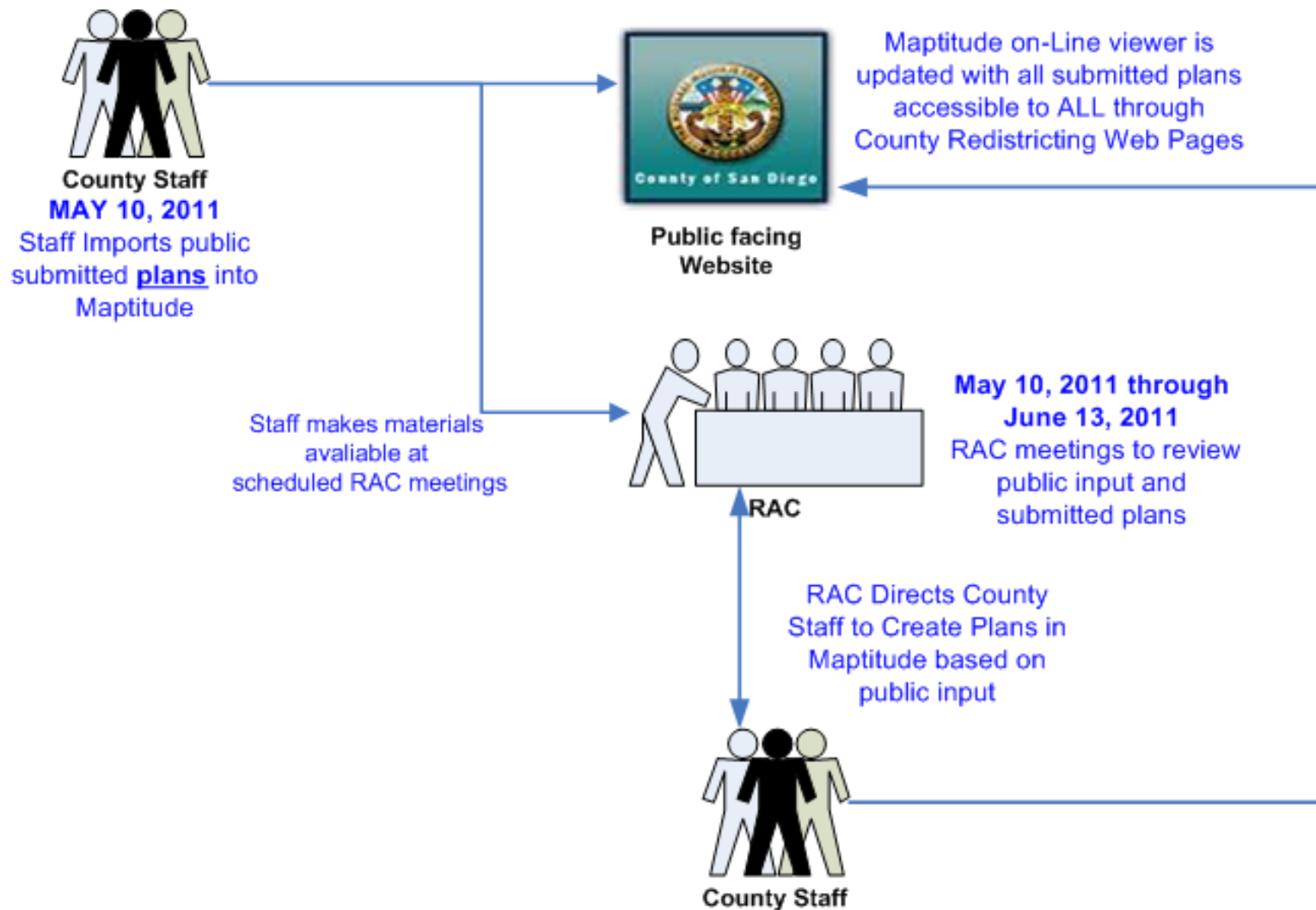
- **Electronic submittal to the County Redistricting e-mail address:**  
[redistricting2011@sdcounty.ca.gov](mailto:redistricting2011@sdcounty.ca.gov)
- In person at the Redistricting Advisory Committee meetings
- Via U.S. mail

# Plan Submittal Process

Through MAY 9, 2011



# Plan Submittal Process, cont.

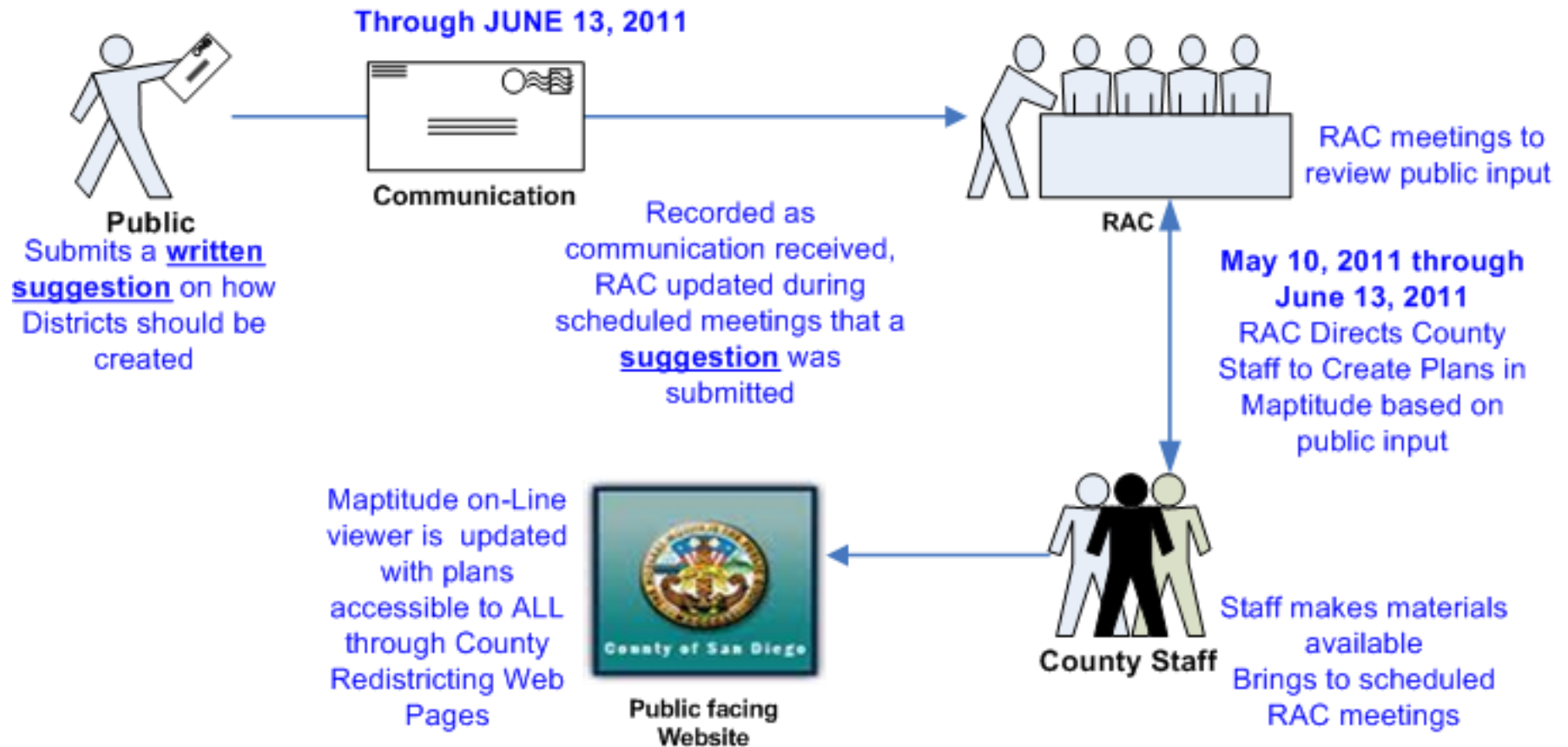




# What is a suggestion?

- **Any input** the public has for the Redistricting Advisory Committee, other than the submission of a plan
- Suggestions may be submitted through 6/13/11:
  - **Electronically via the County Redistricting e-mail address:** [redistricting2011@sdcounty.ca.gov](mailto:redistricting2011@sdcounty.ca.gov)
  - In person at the Redistricting Advisory Committee meetings
  - Via U.S. mail
- See: “How to submit a suggestion to the RAC” on the Redistricting web pages
  - Click the Submit/View Plans Link

# Submitting a suggestion process



## **IV. Maptitude Online Redistricting Plan Viewer**

# What is the On-Line Plan Viewer

- See proposed plans
- Zoom in and out of the map
- View demographic data table
- Run reports

# How to get to the on-line plan viewer



## County of San Diego

 SEARCH

[Your County Government](#)
[Community Services](#)
[Healthy Kids & Families](#)
[Business Resources](#)
[Environment](#)
[Public Safety](#)
[Jobs](#)

### Redistricting 2011

- [Home](#)
- [Contact Us](#)
- [Calendar of Events](#)
- [RAC Meetings](#)
- [Submit / View Plans](#)
- [Resources](#)
- [FAQs](#)

## Redistricting 2011

[Printer Friendly](#)  
A++ | A+ | A



Welcome to San Diego County Redistricting 2011

**News Releases:**

3/9: [Redistricting Advisory Committee Sets Schedule](#)

2/18: [Public Invited to Weigh In On 2011 Redistricting](#)

**What's new on the redistricting web pages:**

How to submit a PLAN, How to submit a SUGGESTION. See the "Submit / View Plans" Link (Updated 3/22)

2011 Districts with 2010 Census data. See the Resources Link. Agenda for 3/23 meeting & proposed minutes from 3/8 meeting See RAC Meetings Link. (Updated 3/18/2011)

Board of Supervisors letter to accept the 2011 RAC By-Laws. See the Resources Link (Updated 3/11/2011)

Staff Presentation and Video of the Redistricting Advisory Committee meeting held on March 8th is now available. See the RAC Meetings Link (Updated 3/8/11)

 [Get e-mail updates on County Redistricting activities.](#)

[County Departments](#) | [Accessibility Policy](#) | [Web & Privacy Policies](#) | [Help](#) | [Visiting San Diego](#)

# How to get to the on-line plan viewer



The screenshot shows the County of San Diego website. At the top, the header includes the County of San Diego logo and a search bar. Below the header is a navigation bar with links to various departments: Your County Government, Community Services, Healthy Kids & Families, Business Resources, Environment, Public Safety, and Jobs.

On the left side, there is a sidebar menu for "Redistricting 2011" with the following links: Home, Contact Us, Calendar of Events, RAC Meetings, Submit / View Plans, Resources, and **FAQ Resources** (highlighted with a red box).

In the main content area, the link **VIEW the latest proposed plans** is circled in red. Below this link are several informational links: "How to submit a PLAN to the Redistricting Advisory Committee?", "Plan Submittal Form" (with a note that the form must be submitted with electronic data files), "How to submit a SUGGESTION to the Redistricting Advisory Committee?", and "Data Reference Documents:" which includes links to "Block Number by Tract Number Index", "Tract Number to Name Index", "Current Districts with 2010 Block Numbers", and "Current Districts with 2010 Tract Numbers".

On the right side, there is a "Printer Friendly" link and a rating "A++ | A+ | A". Below this is the County of San Diego seal, which features the text "THE NOBLEST MOTIVE IS THE PUBLIC GOOD" and "MDCCLII".

At the bottom of the page, there is a footer with links to "County Departments", "Accessibility Policy", "Web & Privacy Policies", "Help", and "Visiting San Diego".

## **V. Work of the Redistricting Advisory Committee**

# Committee Action

- Development of redistricting plan recommendations begins May 9
- County staff will prepare all redistricting plans only at the direction of the Committee
  - As noticed on the agenda and by vote
  - Brief meeting recess planned for staff to review Committee direction



# Scope of Committee's Duties

- Review and analyze census and demographic data, proposed redistricting plans and public input
- Hold at least one public hearing in each district, and at least one public hearing before submission of proposed redistricting plan(s) to the Board
- By June 28, 2011, submit to the Board no more than three proposed redistricting plans

## VI. Next Steps

# Next Steps

- **April 11 - May 3:** Public meetings to review data and gather public input (including one evening meeting in each district)
- **May 9:** Deadline for public submittal of redistricting plans
- **May 9 - June 13:** Public meetings to develop redistricting plan recommendations
- **June 28:** Board of Supervisors public hearing on Committee recommendations
- **July 12:** Board of Supervisors considers ordinance to adjust district boundaries
- **August 2:** Board of Supervisors adopts ordinance

# Connect with Redistricting 2011

- County redistricting website: [www.sdcounty.ca.gov/redistricting](http://www.sdcounty.ca.gov/redistricting)
  - Meeting schedule, locations and materials
  - Live streaming and archived video of meetings
  - View proposed redistricting plans
  - Subscribe to e-mail updates
- County Television Network live broadcast of meetings at the County Administration Center
  - Cox channel 19 (N) or 24 (S)
  - Time-Warner channel 24 or 124 (digital)
- E-mail to: [redistricting2011@sdcounty.ca.gov](mailto:redistricting2011@sdcounty.ca.gov)
- U.S. mail to: County of San Diego  
Attn: Redistricting 2011  
1600 Pacific Highway, Room 201  
San Diego, CA 92101

# Data Sources and Tools

**Redistricting Advisory Committee**  
**March 23, 2011**

